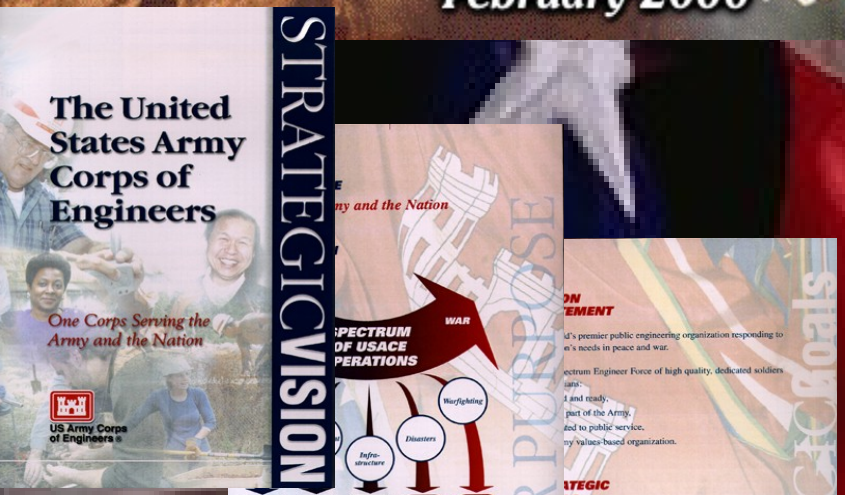
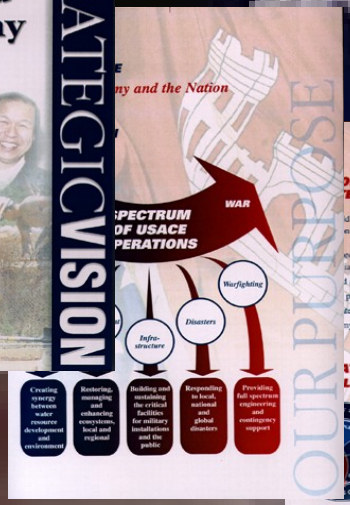
The Army Vision

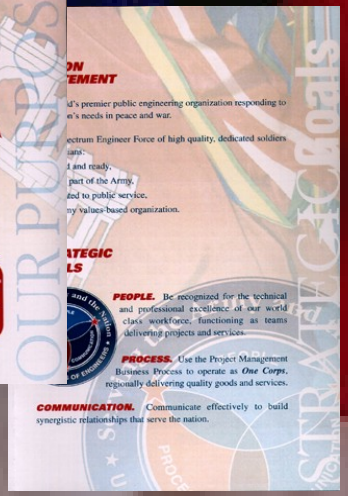
Soldiers on Point for the Nation

Persuasive in Peace, Invincible in War

February 2000







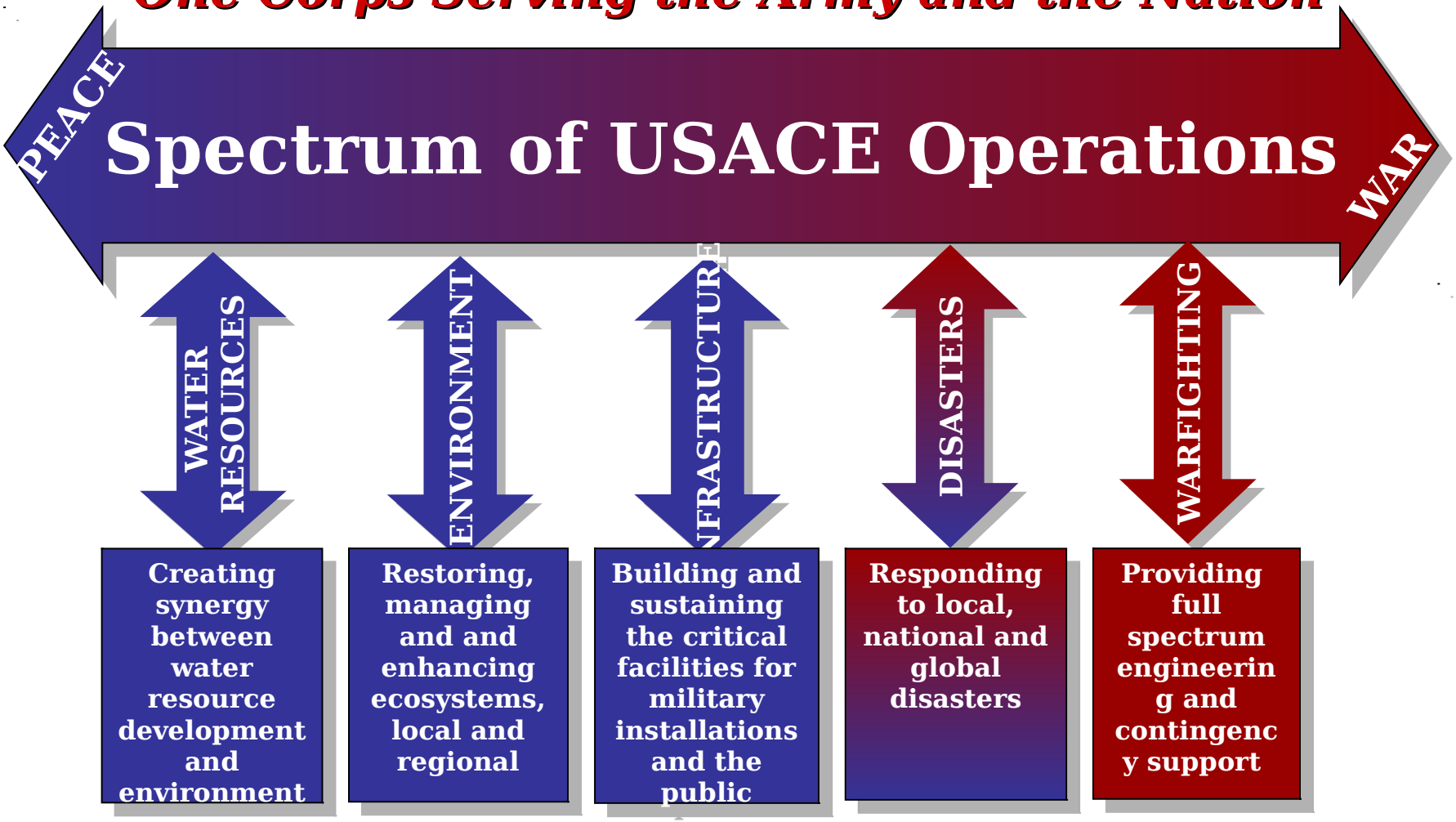
USACE 101

Engineers on point for the Army and the Nation!

The US Army Corps of Engineers

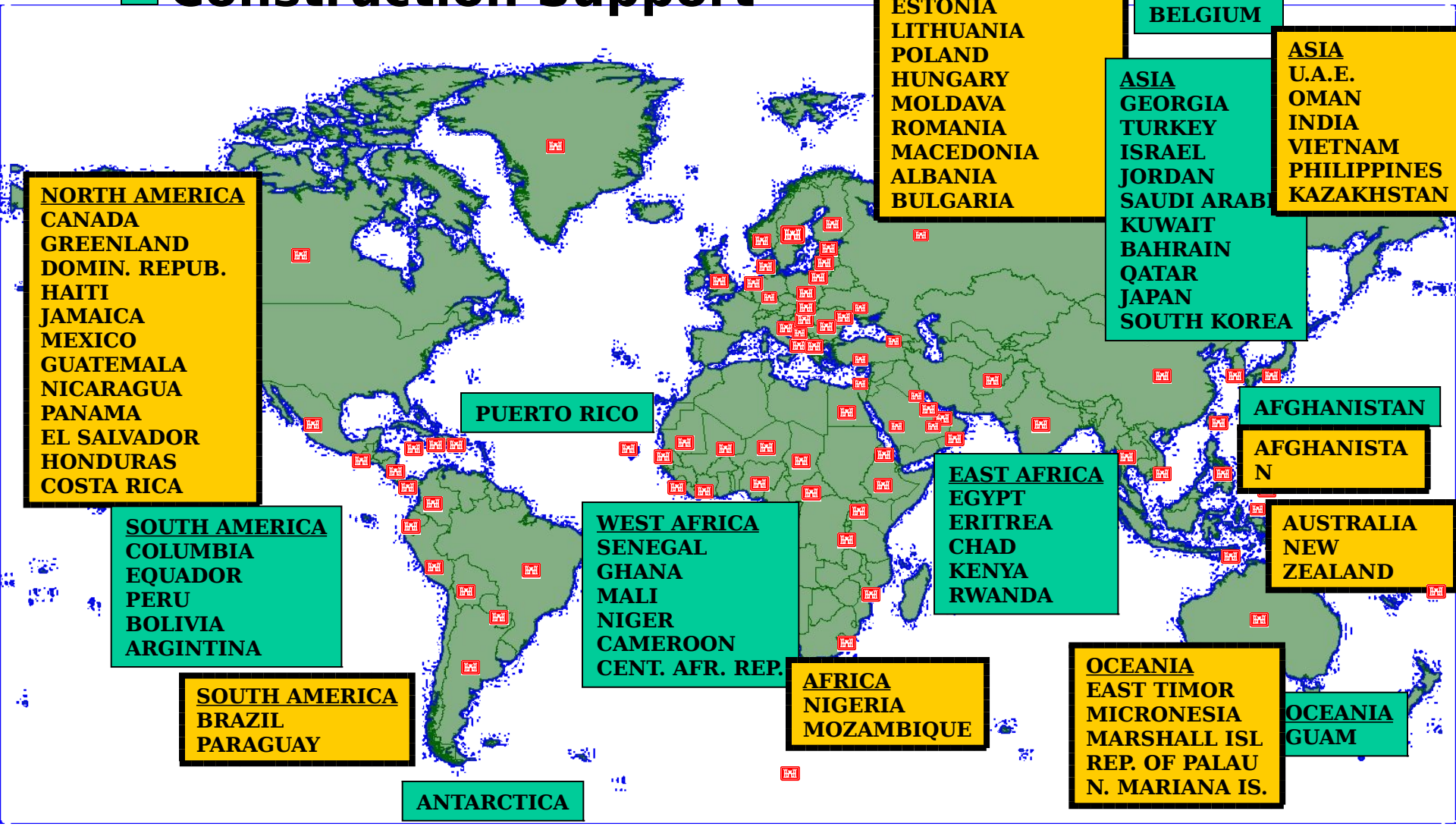
USACE Operations

One Corps Serving the Army and the Nation


PEACE
Spectrum of USACE Operations
WAR
WATER RESOURCES
ENVIRONMENT
NFRASTRUCTURE
DISASTERS
WARFIGHTING
Creating synergy between water resource development and environment
Restoring, managing and and enhancing ecosystems, local and regional
Building and sustaining the critical facilities for military installations and the public
Responding to local, national and global disasters
Providing full spectrum engineering and contingency support

USACE, Around the World

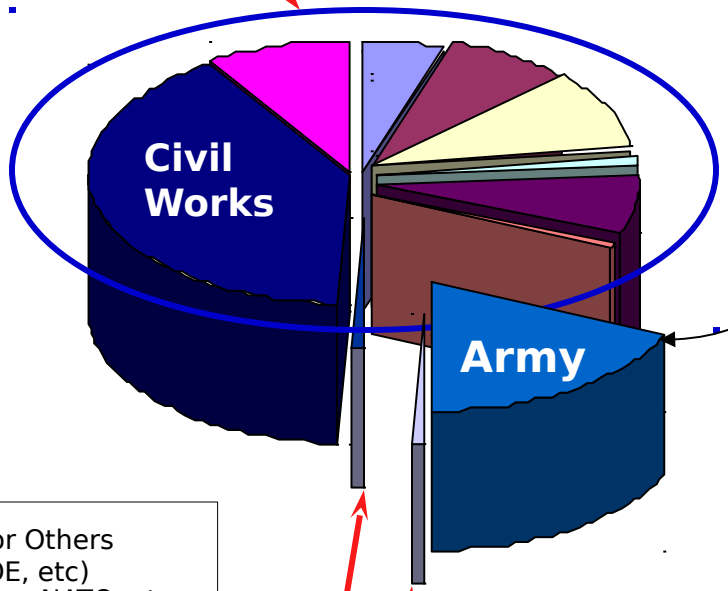
- Technical Assistance
- Construction Support



USACE Budget

FY03 USACE Controlled Program

Controlled by other than ARB



- Support for Others (EPA, DOE, etc)
- Host Nation, NATO, etc
- DOD Agencies
- Other (Engr, R&D, NAF, etc)
- Air Force
- Foreign Military Sales
- Army Direct
- USACE Mil Operating Funds
- Civil Works
- Army Reimbursable

Army Resources Board Controlled (22%)
MCA, BRAC, AFH, RDT&E, etc
OMA (DERP, RE)

USACE Operating Funds
- **HQUSACE + FOAs**
- **8 Division HQ**

$109 M OMA
$161 M GE
$270 Million

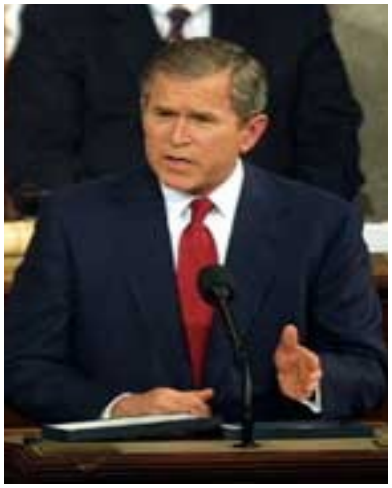
$5.6 B - Civil
$8.1 B - Military
$13.7 B – Total

Data as of Sep 02 (Estimated)

Support to the Army and the Nation

Challenges

President's Priorities:



- **Win the War Against Terrorism**
- **Protect the Homeland**
- **Revitalize the Economy**

Aging Infrastructure

Need for Sustainable Development

WORLD SUMMIT ON SUSTAINABLE DEVELOPMENT
JOHANNESBURG 2002

Support to the Army and the Nation

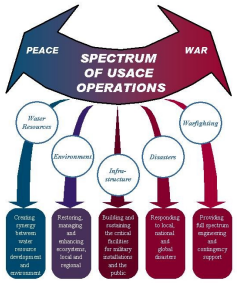
Priorities

President Bush:

- **Win the War Against Terrorism**
  - **Leveraging the Regiment**
  - **FFE Support to the CINCs**
  - **CREST in AO**
  - **TeleEngineering**
- **Protect the Homeland**
  - **Leverage ERDC & Centers of Expertise**
  - **RAM-D**
  - **TISP**
- **Revitalize the Economy**
  - **Civil Works Mission—Value to the Nation**
  - **Contracting Services**
  - **Small Business Success**

Secretary White:

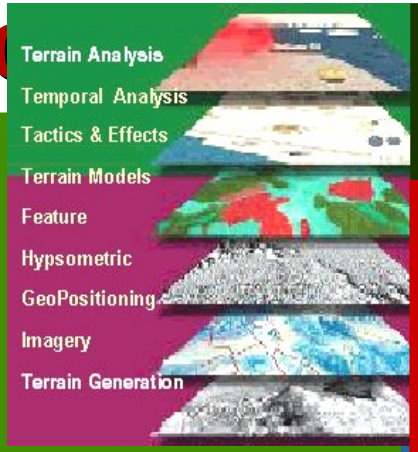
- **Win the Current War**
- **Prepare for the Next War**
  - **Fort Future**
  - **Support to Army Transformation**
  - **GMD**
  - **Leverage ERDC & Centers of Expertise**
- **Gather Resources Needed for Both**
  - **Leverage Civil Works Mission**



Support to the Army and the Nation

Military Programs

- Military construction
- Base operations
- Environmental restoration
- Geospatial Engineering



Research & Development

- Military engineering
- Terrain & Geospatial
- Installations & Environment
- Water Resources

Real Estate

- Acquire, manage & dispose
- DOD recruiting facilities
- Contingency operations

Interagency

- DOD, Federa
- State & Loca
- Internationa

Civil Works

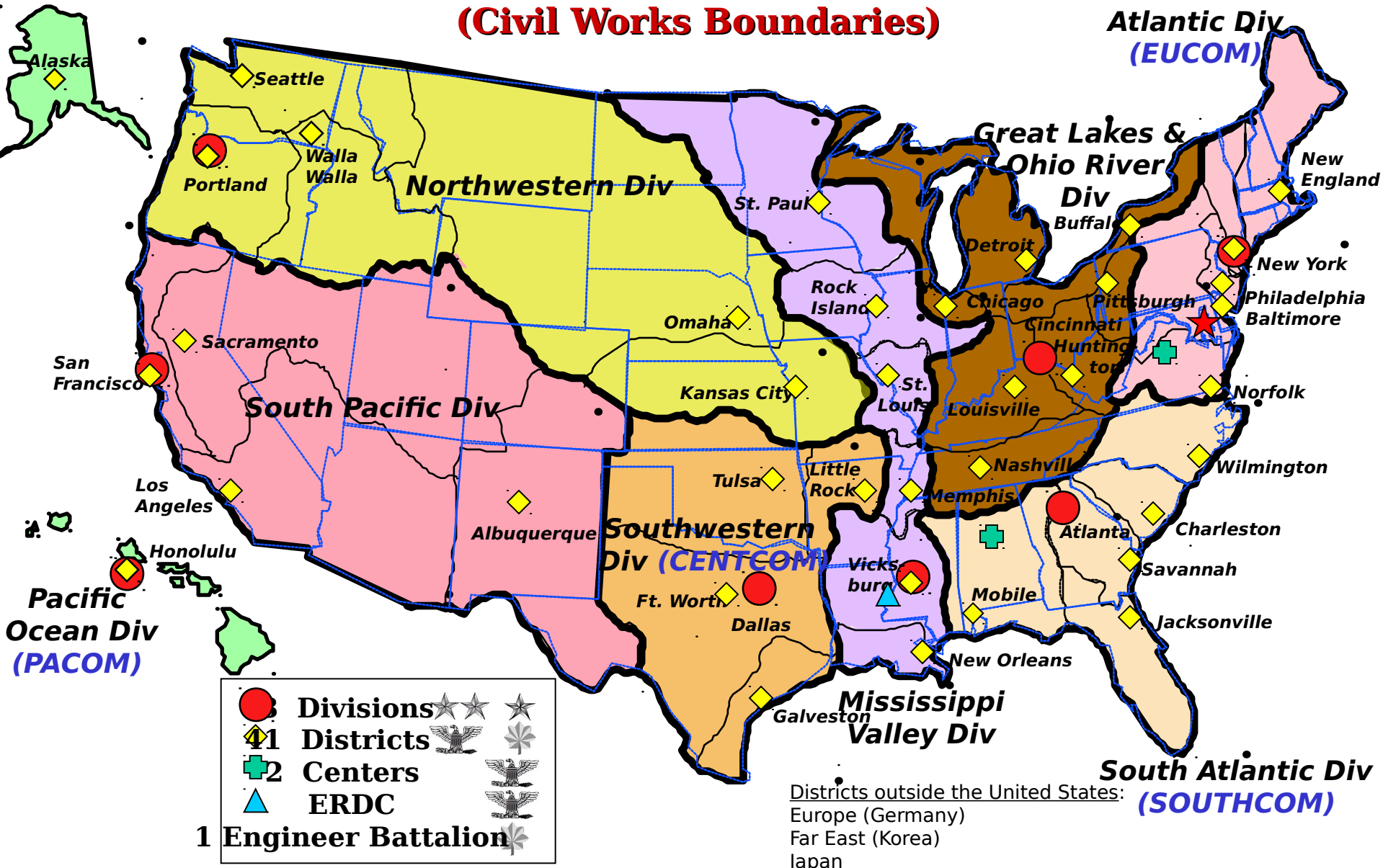
- Navigation, Hydropower
- Flood control, Shore Protection
- Disaster response
- Environmental restoration
- Water Supply
- Regulatory

Plus: *Homeland Security*

USACE Terrain Walk

MACOM Overview

(Civil Works Boundaries)



Districts outside the United States:
Europe (Germany)
Far East (Korea)
Japan

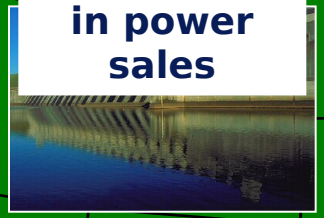
USACE Terrain Walk

Civil Works Value to the Nation

Recreation areas 376 M Visitors/yr Generate $15 B in economic activity, 500,000 jobs

400 miles of Shore protection Destination for 75% of U.S. Vacations

¼ of Nation's Hydropower: $500 M + in power sales



11,000 miles of Commercial Inland Waterways: ½ the cost of rail 1/10 the cost of trucks

299 Deep Draft Harbors

627 Shallow Draft Harbors

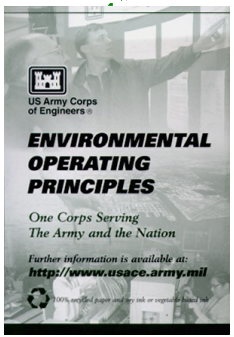
8500 Miles of Levees

Stewardship of 11.7 Million Acres Public Lands

Emergency Operations

Environmental Restoration

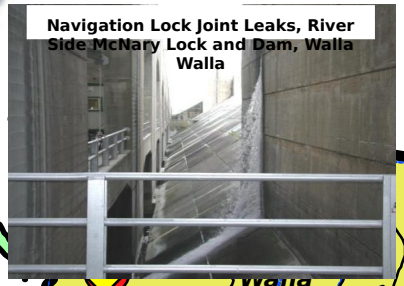
Regulatory Responsibilities

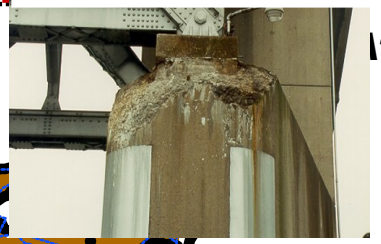

US Army Corps of Engineers
ENVIRONMENTAL OPERATING PRINCIPLES
One Corps Serving The Army and the Nation
Further information is available at:
http://www.usace.army.mil

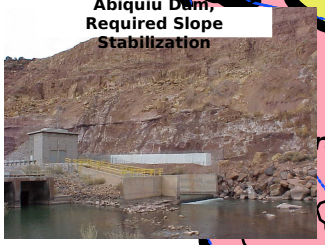
- US Ports & Waterways convey > 2B Tons Commerce

Critical O&M Backlog

$883 Million

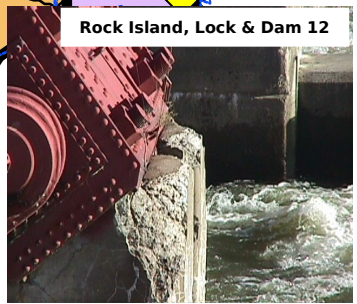

Navigation Lock Joint Leaks, River Side McNary Lock and Dam, Walla Walla


Marmet Dam Pier 6, delaminated concrete


Abiquiu Dam, Required Slope Stabilization

Barre Falls concrete spillway & retaining wall deterioration

Exposed Reinforcing Steel


Rock Island, Lock & Dam 12

Canaveral Harbor, FL structural steel deterioration

Alaska

Portland

Walla Walla

Northwestern Div

$136M

St. Paul

Rock Island

Omaha

Kansas City

$191M

Chicago

Cincinnati

Nashville

Memphis

Atlanta

$120M

$92M

$120M

South Pacific Div

$120M

Albuquerque

Tulsa

Little Rock

Southwestern Div (CENTCOM)

$88M

Vicksburg

Mobile

$137M

North Atlantic Div

Support to the Army and the Nation

Leveraging Civil Works Capabilities

Development & Management of Water Resources Infrastructure

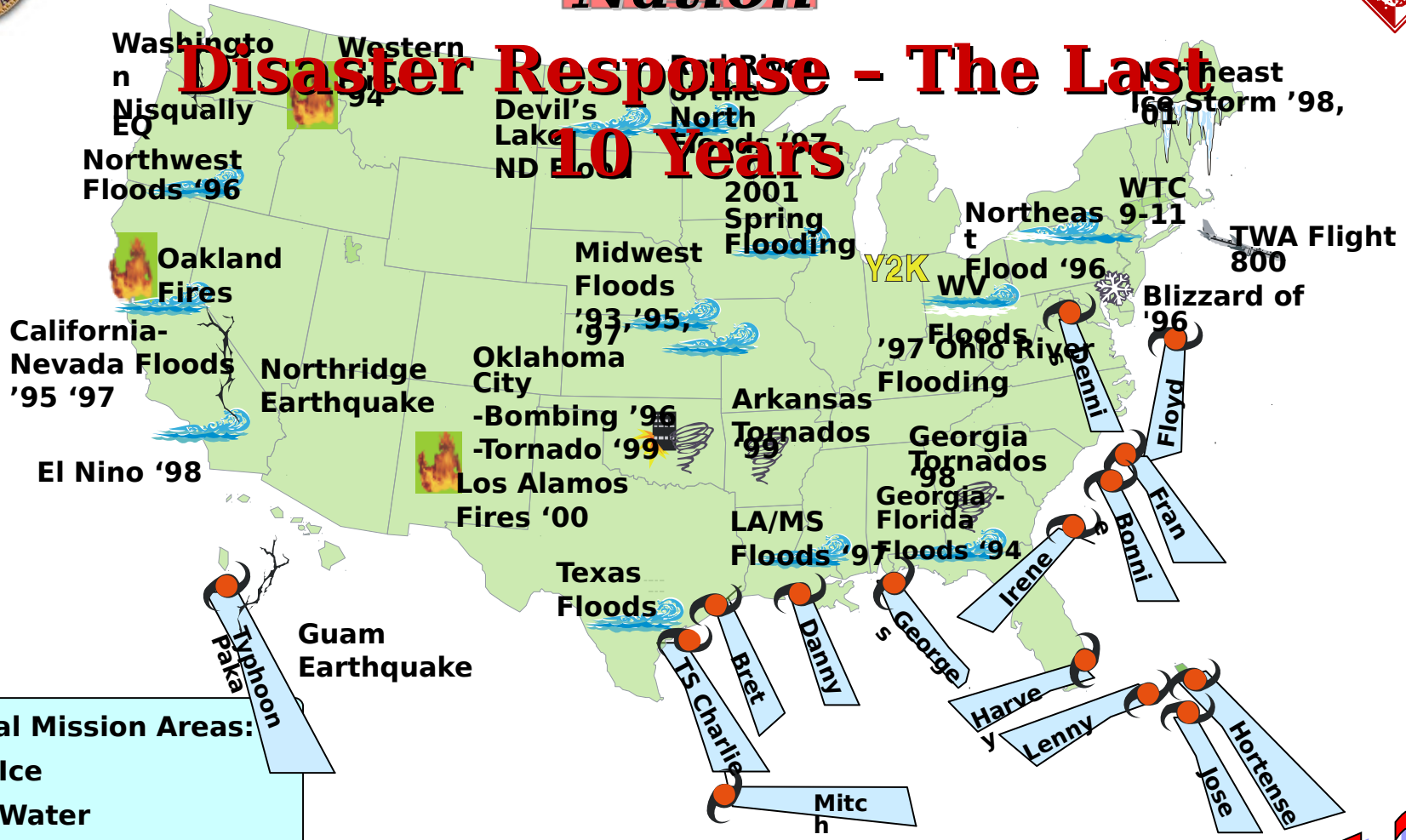
Protection, Restoration & Management of the Environment

Disaster Response & Recovery

Engineering & Technical Services

Support to The Army and the Nation

Disaster Response – The Last 10 Years



- Typical Mission Areas:
  - Ice
  - Water
  - Emergency Power
  - Temporary Roofing
  - Temporary Housing
  - Technical Assistance

FEMA's Engineer

ESF-3

Support to the Army and the Nation

Military Program Activities

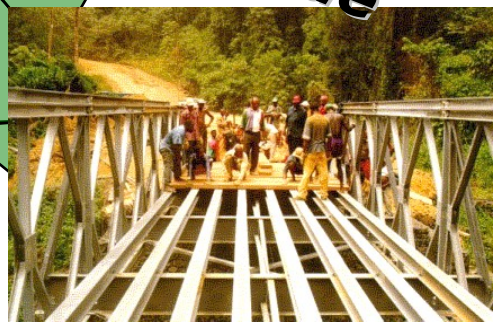
"To provide engineering, construction, and environmental management services for the Army, Air Force, other assigned U.S. Government agencies, and foreign governments."

Army

U.S. Government Agencies

Air Force

Foreign Govt's Worldwide



Support to the Army and the Nation

Major Military Programs

MILCON

- Working and Living Facilities for Soldiers and Airmen
- National Missile Defense
- Army Transformation
- Chemical Demilitarization
- Foreign Military Sales
- Department of Defense Medical

INTERAGENCY & INTERNATIONAL SUPPORT

- DC Public Schools
- Cooperative Threat Reduction
- Africa and Latin America
- Superfund (EPA)

ENVIRONMENTAL

- Base Realignment & Closure
- Installation Restoration Program
- Formerly Used Defense Sites
- Formerly Utilized Sites Remedial Action Program
- Environmental Quality

INSTALLATION SUPPORT

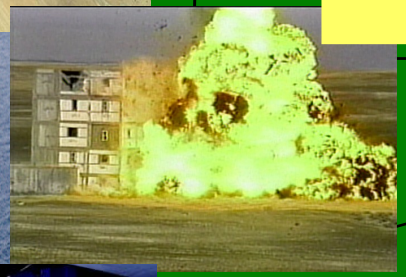
- Master Planning and Real Property Inventory
- Residential Communities Initiative
- DPW Automation
- Strategic Sourcing

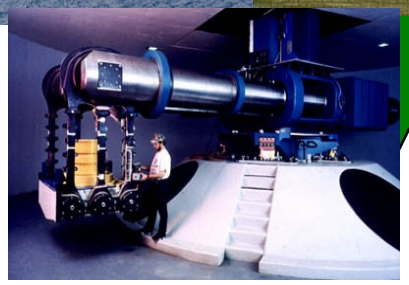
Plus: Contingency Support

Support to the Army and the Nation

Engineer Research and Development Center

- 2014 Employees
- 1029 Scientists & Engineers
  - 533 Master's Degrees
  - 266 Doctorate Degrees
- $1.2 Billion in Research Facilities & Equipment
- $568 Million Annual Program





Cold Regions Research Engineering

Hanover, NH

Construction Engineering Research

Champaign, IL

Topographic Engineering Center

Alexandria, VA

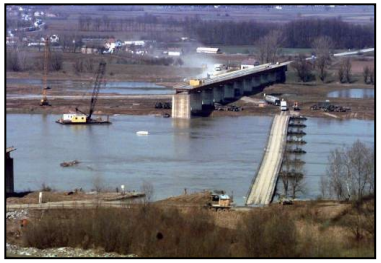
Coastal and Hydraulics
Environmental
Geotechnical and Structures
Information Technology

Vicksburg, MS

Support to the Army and the Nation

Leveraging Technical Engineer Capabilities

Tactical Military Hydrology



Contingency Airfields

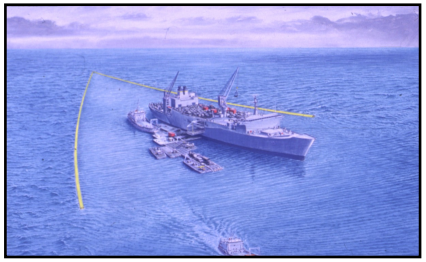
Utility Assessment and Repai

Cold Regions Theater of Operations Engineering

Base Camp Construction, Protection & Survivabilit

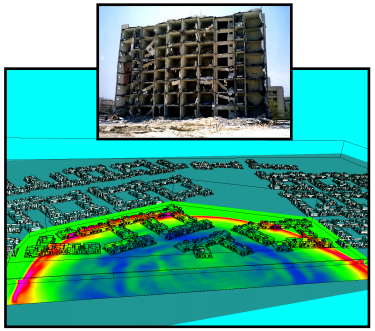
Rapid Mapping

Logistics Over the Shor



Bridge Assessment and Repair

Force Protection



Support to the Army and the Nation

Homeland Security

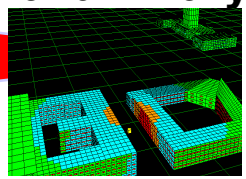
Critical Infrastructure Protection

TISP
www.tisp.org

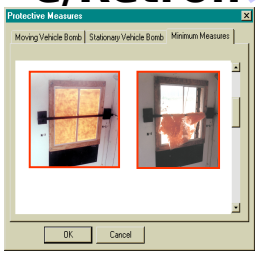
Leading Edge AT/FP Design

Security Barriers

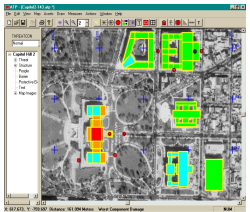
Structural/Window Hazard Analysis



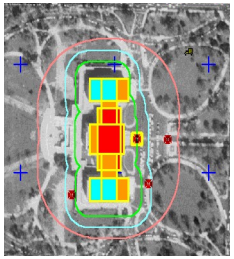
Protective/Retrofi



Site Definition



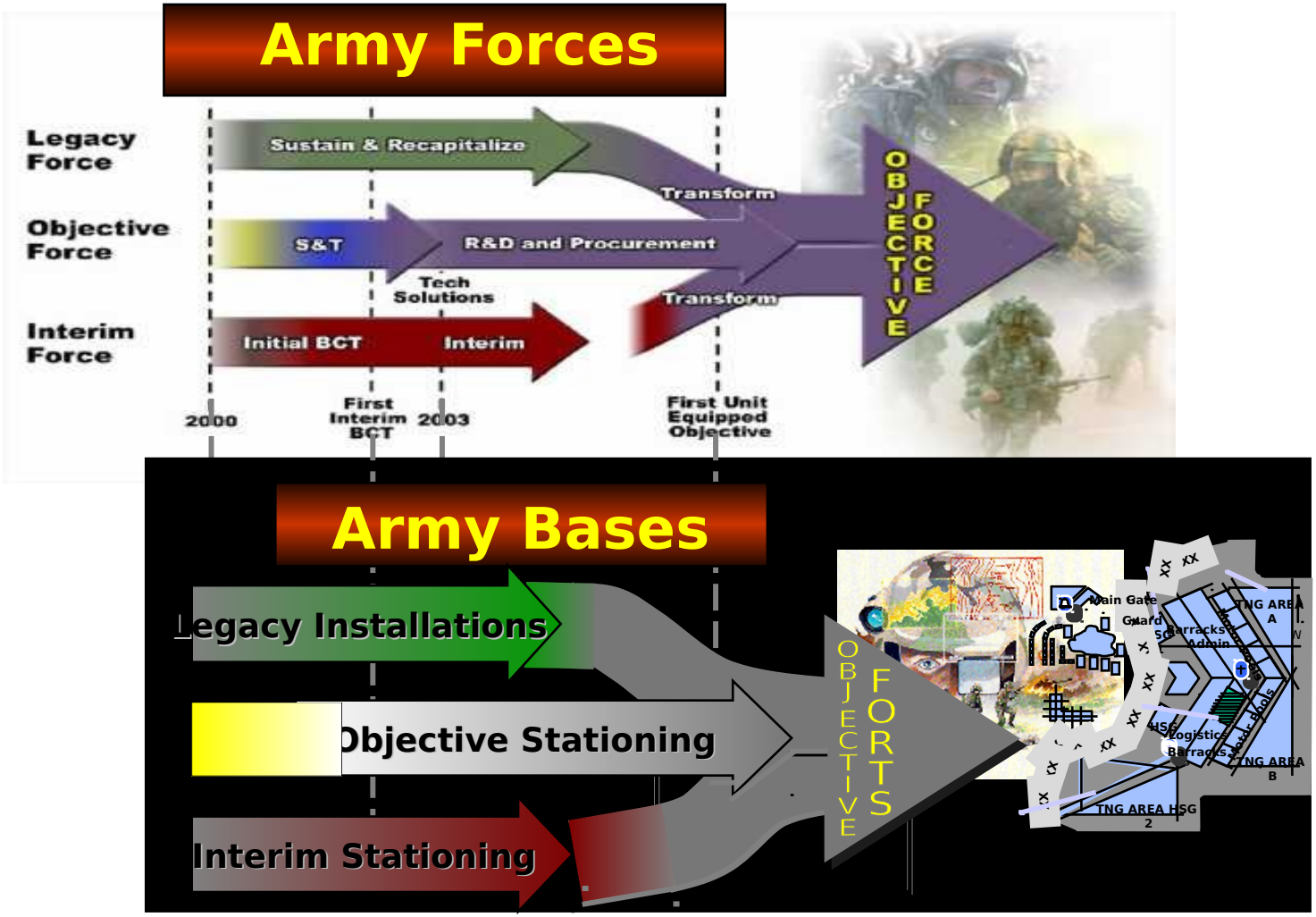
Safe Standoff Calculation



Centers of Expertis

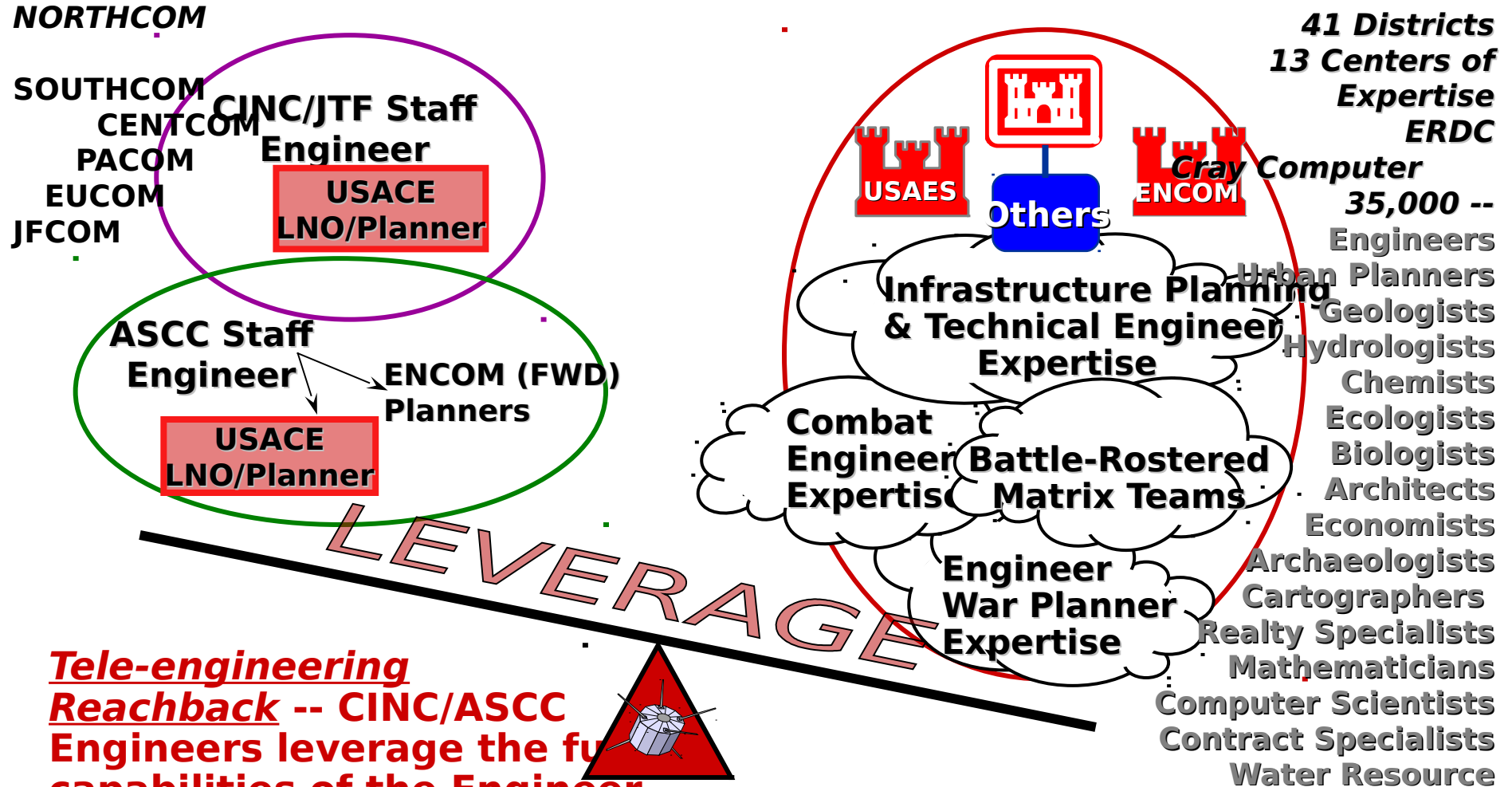
Support to the Army and the Nation

Supporting Installation Transformation



Engineer Support to the Warfighter

Field Force Engineering – Leveraging the Regiment



41 Districts
13 Centers of Expertise
ERDC
Cray Computer
35,000 --
Engineers
Urban Planners
Geologists
Hydrologists
Chemists
Ecologists
Biologists
Architects
Economists
Archaeologists
Cartographers
Realty Specialists
Mathematicians
Computer Scientists
Contract Specialists
Water Resource Planners
Physical Scientists

Tele-engineering Reachback **-- CINC/ASCC Engineers leverage the full capabilities of the Engineer Regiment real time --** ***virtually***

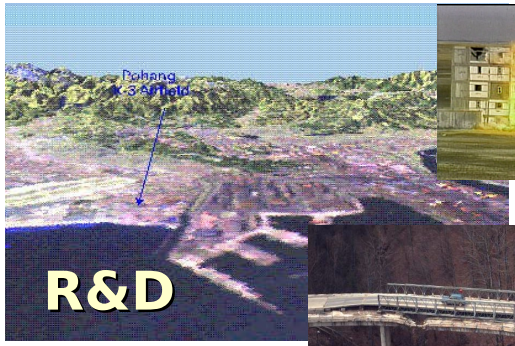
Support to the Army and the Nation

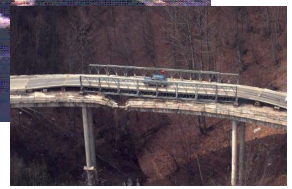
Leveraging Capabilities to Support the Warfighter

Enhanced Theater Access

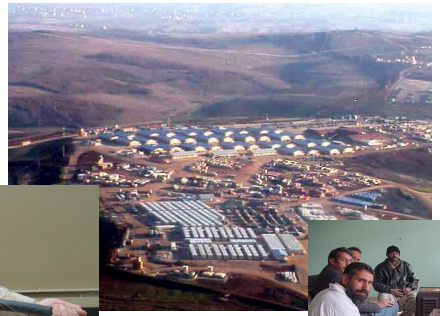
Support to CINCs w/ Reach Back

Assured Mobility & Force Protection





Infrastructure



FORT FUTURE

Leveraging all of USACE from Peace to War…to Post Conflict O

The US Army Corps of Engineers

Takeaways

U S A r m y C o r p s
o f E n g i n e e r s ®

We are:

- **Trained and Ready – Supporting the Warfighter and Homeland Security**
- **Globally Deployed – A Vital Part of Sustainable Peace**
- **Essential to Army Transformation**
- **Good Stewards of the Nation's resources**
- **Sustaining and Building Relationships – Nation and the Armed Forces**
- **Providing Solutions Today**
- **Connecting America to its Army**
- **Talented - Dedicated - Unique**